PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 122 (SECURITY BLVD)/ COOKS LANE AND FOREST PARK AVENUE IN BALTIMORE COUNTY.

MD 122 (SECURITY BLVD)/ COOKS LANE IS ASSUMED TO TRAVEL IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION SHALL CONTINUE THE THREE-PHASE, FULL TRAFFIC ACTUATED OPERATION. THE EXISTING STREET LIGHTING WILL BE REPLACED. A VIDEO CAMERA SHALL PROVIDE FOR PRESENCE AND ADVANCE DETECTION ON FOREST PARK AVE.

A SOLID STATE EIGHT-PHASE, FULLY-TRAFFIC-ACTUATED CONTROLLER WITH AMPLIFIERS, CAMERA INTERFACE AND ALL NECESSARY EQUIPMENT HOUSED IN A SIZE '6' BASE MOUNTED CABINET SHALL BE INSTALLED AT THE INTERSECTION.

III. SPECIAL NOTES:

THE CONTRACTOR SHALL CONTACT MR. ROBERT SNYDER, TRAFFIC OPERATIONS, AT 410-788-7630: 72 HOURS PRIOR TO THE COMPLETION OF THE ABOVE RECONSTRUCTION TO HAVE A TELEPHONE DROP ARRANGED. THE ADDRESS OF THE NEAREST HOUSE NUMBER IS PROVIDED ON THE PLAN.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
9000	IEA	SOLID STATE, FULL- TRAFFIC- ACTUATED, EIGHT-PHASE CONTROLLOR WITH I FOUR CHANNEL AMPLIFIER, CAMERA INTERFACE AND ALL NECESSARY EQUIPMENT HOUSED IN SIZE '6' BASE MOUNTED CABINET
9017	I EA	27' STEEL POLE(27' CUT TO 21') WITH 38' MAST ARM (FOUR-11/2" X 60" ANCHOR BOLTS)
9026	IEA	27' STEEL POLE WITH TWIN 50' X 64' MAST ARM (50' CUT TO 40') (NOTE: THE FOUR-2" X 90" ANCHOR BOLTS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR)
9571	35 SF	SHEET ALUMINUM FOR MAST ARM MOUNTING
		R3-5R "RIGHT TURN ONLY" SIGN (30" X 36") D3-2 "ARROW, Forest Park AVE/ Forest Park AVE, ARROW" (VARIABLE X 16") DUALFACED D3-2 "ARROW, Security BLVD", "Cooks LN, ARROW" (VARIABLE X 32")

PROJECT CONTACTS

CONTACT PERSONS FOR DISTRICT 4 ARE AS FOLLOWS:

MR. RANDALL SCOTT ASSISTANT DISTRICT ENGINEER TRAFFIC - 410-321-2781

MR. GRADON TOBERY ASSISTANT DISTRICT ENGINEER CONSTRUCTION - 410-321-3600

MR. STEVE MARCISZEWSKI ASSISTANT DISTRICT ENGINEER MAINTENANCE - 410-321-2761

MS. SUENETTE POPE ASSISTANT DISTRICT ENGINEER UTILITIES - 410-321-2841

CONTACTS FOR OFFICE OF

TRAFFIC AND SAFETY:

MR. RICHARD DAFF SR. CHIEF. TRAFFIC OPERATIONS 410-787-7630

MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF. TRAFFIC OPERATIONS DIVISION 410-787-7630

MR. ED RODENHIZER TEAM LEADER - SIGNAL OPERATIONS 410-787-7650

MR. DERRICK DICKERSON PROJECT MANAGER - SIGNAL DESIGN 410-787-5856

EQUIPMENT LIST "B"

ITEM NO. QUANTITY

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR:

DESCRIPTION

1001	2 EA	MAINTENANCE OF TRAFFIC	
2001	.2 CY	CLASS 2 EXCAVATION	
2002	2 CY	TEST PIT EXCAVATION	
5001	25 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS (ANY WIDTH)	
5006	25 LF	24" APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS	~
6004	15 SF	4" CONCRETE SIDEWALK	
8001	9.5 CY	CONCRETE FOUNDATION	
8009	1 EA	CONTROL CABLE, 300' VIDEO DETECTOR CAMERA TO CONTROLLER	
8013	2 EA	INSTALL STEEL POLE WITH SINGLE OR TWIN MAST ARMS (NOTE: FOUR- 2" X 90" SHALL BE REQUIRED)	
8019	1 EA	REMOVE AND DISPOSE OF EXISTING EQUIPMENT	_
8028	18 LF	WOOD SIGN SUPPORT 4" X 6"	
8029	242 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	
8030	30 LF	1" ELECTRICAL CONDUIT- GALVANIZED RISER	
8033	1 EA	3" WEATHERHEAD	
8036	245 LF	4" SCHEDULE 80 PVC CONDUIT- BORED	
8037	20 LF	2" SCHEDULE 80 PVC CONDUIT- TRENCHED	
8038	35 LF	3" SCHEDULE 80 PVC CONDUIT- TRENCHED	
8039	40 LF	4" SCHEDULE 80 PVC CONDUIT- TRENCHED	
8043	20 LF	1" LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SU	LEEVE
8045	1 EA	ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240 VOLTS 60 AMPS	
8046	60 LF	ELECTRICAL CABLE 1-CONDUCTOR NO. 4 AWG -THHN/THWN (3 WIRES)	
8050	3 EA	3 SET MIRCOLOOP PROBES, 500' LEAD IN CABLE	
8052	2 EA	ELECTRICAL HANDHOLE	
8054	12 SF	INSTALL GROUND MOUNTED SIGN	
8055	35 SF	INSTALL OVERHEAD SIGN	A,B,
8056	1 EA	VIDEO DETECTOR CAMERA	D.E.
8069	1 EA	250 WATT HPS LAMP AND LUMINAIRE	
8073	3 EA	GROUND ROD (3/4" DIA X 10' LENGTH)	G,H,
8075	18 EA	12" VECHICULAR TRAFFIC SIGNAL HEAD SECTION	K
8078	2 EA	CUT, CLEAN GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE	
8083	85 LF	ELECTRICAL CABLE 5- CONDUCTOR NO.14 AWG	L
8084	740 LF	ELECTRICAL CABLE 7- CONDUCTOR NO.14 AWG	М
8085	265 LF	ELECTRICAL CABLE 2- CONDUCTOR NO.12 AWG TC	l N
8089	1 EA	15' LIGHTING ARM ON SIGNAL STRUCTURE	. `
8094	1 EA	INSTALL CONTROLLER AND BASE MOUNTED CABINET	O
			F
			i '

EQUIPMENT LIST "C"

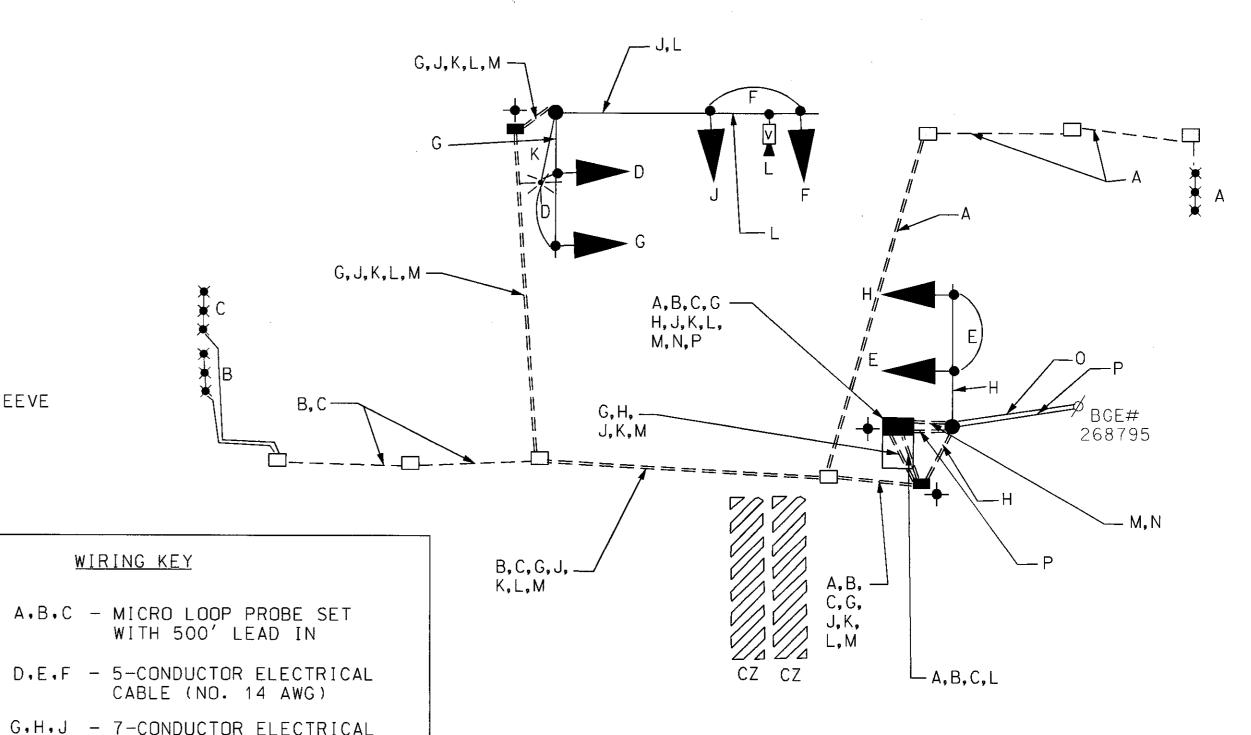
SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL MATERIAL/EQUIPEMT TO BE REMOVED BY THE CONTRACTOR SHALL BECAME THE PROPERTY OF THE CONTRACTOR.

EXISTING PHASING

1	2	3	4	5	6
R	R	R	R	R	R
G	G	6		G	G

Phase 2 & 6	G	G	G	G	R	R	←
2 & 6 Change	Υ	Y	Υ	Υ	R	R	
Phase 4	R	R	R	R	G	G	A
4 Change	R	R	R	R	Υ	Υ	
Flashing		FL /V	EL /V	FL/Y		E	< 4
Operation			FL/	F L / Y	F L / K	FE/K 	

WIRING DIAGRAM



3HA#:BA445A57/B57 TOD#:AT357-25

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION SHEET

MD 122 (SECURITY BLVD.) / COOKS LN. AND FOREST PARK AVE.

CENTURY ENGINEERING, INC 32 WEST ROAD

DRAWN BY: S.P. F.A.P. NO. CHECKED BY: E.M.M. + TH AT35375185 S.H.A. NO. N/A COUNTY: BALTIMORE

4293C T.I.M.S. NO. LOG MILE: 03012202.91 G251

3/15/2004

SHEET NO.

CONSULTING ENGINEERS - PLANNERS TOWSON, MARYLAND 21204

CABLE (NO. 14 AWG)

LEAD TO CONTROLLER

M - NO.6 AWG STRANDED BARE COPPER GROUND WIRE

N - 1-CONDUCTOR ELECTRICAL

THWN (3 WIRES)

O - OVERHEAD SERVICE FEED BGE POLE # 268795

P - PROPOSED PHONE SERVICE

- - $\frac{3}{4}$ IN. x 10 FT. GROUND ROD

CZ - CAMERA DETECTOR ZONE

(NO.12 AWG) TRAY CABLE

CABLE (NO. 4 AWG)-THHN/

K - 2-CONDUCTOR ELECTRICAL

L - CAMERA WITH 300'

SCALE: DATE:

3/12/04 o:*TRANSDWG*22171*task 33*GImd122.dgn